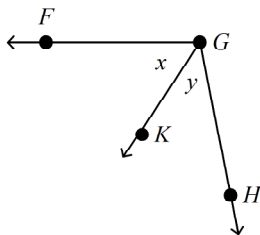


Geometry - Unit 1 Practice Test for wiki - Kuhowski**Short Answer**

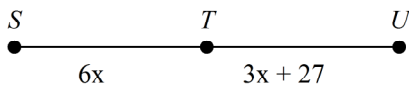
- Find the coordinates of the midpoint of the segment whose endpoints are $H(8, 2)$ and $K(4, 8)$.
- If $EF = 3x - 6$, $FG = 4x - 7$, and $EG = 22$, find the values of x , EF , and FG . The drawing is not to scale.



In the figure, \overrightarrow{GK} bisects $\angle FGH$.



- If $m\angle FGK = 3v - 4$ and $m\angle KGH = 2v + 4$, find x .
- $\angle 1$ and $\angle 2$ are supplementary angles. $m\angle 1 = x - 13$, and $m\angle 2 = x + 63$. Find the measure of each angle.
- Find the distance between points $P(6, 3)$ and $Q(2, 4)$ to the nearest tenth.
- If T is the midpoint of \overline{SU} , find the values of x and ST . The diagram is not to scale.



- $\angle DFG$ and $\angle JKL$ are complementary angles. $m\angle DFG = x + 4$, and $m\angle JKL = x - 8$. Find the measure of each angle.

_____ 13. Name four segments in Figure 5-2 above.

a. \overrightarrow{CE} , \overrightarrow{BC} , \overrightarrow{AC} , \overrightarrow{BD}

b. B , C , D , E

c. \overleftrightarrow{AC} , \overleftrightarrow{BC} , \overleftrightarrow{CA} , \overleftrightarrow{BD}

d. \overleftrightarrow{AB} , \overleftrightarrow{BC} , \overleftrightarrow{BD} , \overleftrightarrow{CE}

_____ 14. Name four points in Figure 5-2 above.

a. Point A, point B, point C, point D

b. Point Z, point D, point E, point B

c. \overline{BC} , \overline{AB} , \overline{BD} , \overline{CE}

d. \overrightarrow{BC} , \overrightarrow{AB} , \overrightarrow{BD} , \overrightarrow{AC}

_____ 15. Name a plane in Figure 5-2 above.

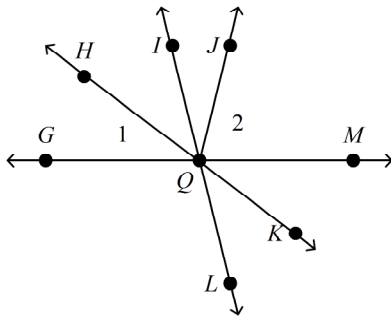
a. D

b. \overline{EC}

c. Z

d. \overrightarrow{BC}

Use the figure to find the angles.



_____ 16. Name a linear pair.

a. $\angle LQG$, $\angle KQM$

b. $\angle GQL$, $\angle LQJ$

c. $\angle KQG$, $\angle HQM$

d. $\angle GQI$, $\angle IQM$

_____ 17. Name an angle supplementary to $\angle MQI$.

a. $\angle IQG$

b. $\angle IQH$

c. $\angle GQL$

d. $\angle MQK$

_____ 18. If $\angle MQI$ is 100° and $\angle JQI$ is 20° , what is the measure of $\angle MQJ$?

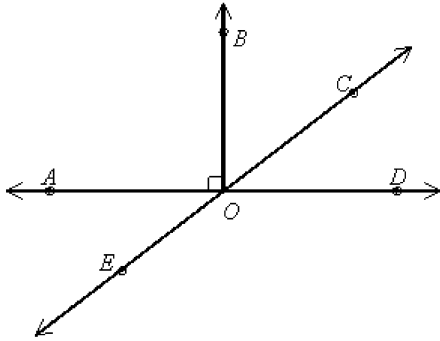
a. 110°

b. 120°

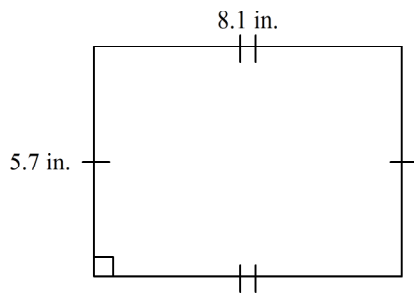
c. 90°

d. 80°

- ____ 19. Name an angle supplementary to $\angle COB$.



- a. $\angle AOE$ b. $\angle BOE$ c. $\angle BOA$ d. $\angle COD$
- ____ 20. Find the perimeter of the parallelogram. Round to the nearest tenth if necessary.



- a. 27.6 in.; c. 13.8 in.;
b. 13.8 in.; d. 27.6 in.;

Refer to Figure 2.

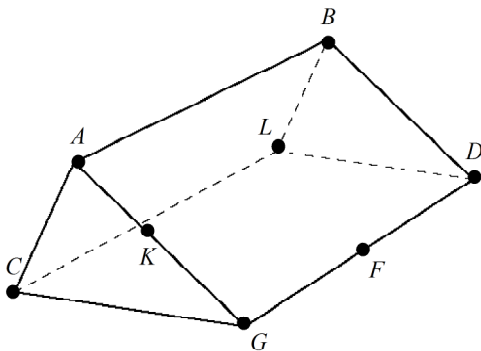


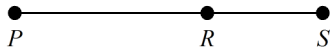
Figure 2

- ____ 21. Name an intersection of plane GFL and the plane that contains points A and C .
- a. line LC c. line AC
b. plane CAB d. C
- ____ 22. Where could you add point M on plane LBD so that D , B , and M would be collinear?
- a. anywhere on \overleftrightarrow{BL} c. anywhere on \overleftrightarrow{DF}
b. anywhere on \overleftrightarrow{LD} d. anywhere on \overleftrightarrow{BD}

- ____ 23. Name three collinear points.
 a. C, L, B
 b. D, F, G
 c. B, L, D
 d. K, A, C
- ____ 24. How many planes contain points B, C , and A ?
 a. 2
 b. 1
 c. 3
 d. 0

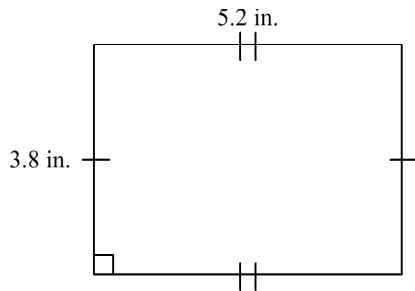
Find the measurement of the segment.

- ____ 25. $PR = 14.1$ mm, $RS = 12.6$ mm



$PS = ?$

- a. 26.9 mm
 b. 26.7 mm
 c. 1.5 mm
 d. 26.6 mm
- ____ 26. Find the area of the parallelogram. Round to the nearest tenth if necessary.



- a. 22.2 in^2
 b. 19.8 in^2
 c. 19.8 in^2
 d. 22.2 in^2
- ____ 27. Find the value of the variable and GH if H is between G and I .
 $GI = 8b + 3, HI = 3b - 5, HI = 19$
- a. $b = 1.91, GH = 18.27$
 b. $b = 8, GH = 67$
 c. $b = 8, GH = 48$
 d. $b = 2, GH = 20$

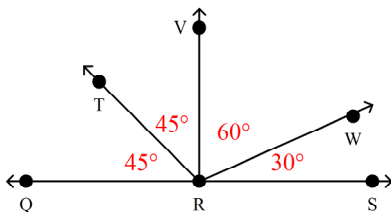
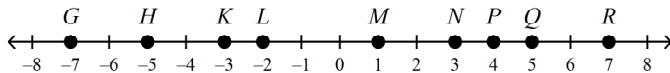


Figure 5-3

- ____ 28. Name a pair of complementary angles in Figure 5-3 above.
 a. $\angle QRV, \angle VRW$
 b. $\angle QRT, \angle VRS$
 c. $\angle QRV, \angle VRS$
 d. $\angle VRW, \angle SRW$

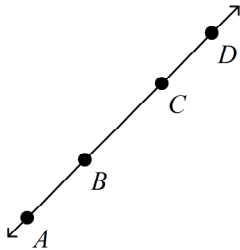
- ____ 29. Name two acute angles in Figure 5-3 above.
- a. $\angle QRV, \angle VRS$ c. $\angle QRT, \angle VRW$
 b. $\angle QRT, \angle VRS$ d. $\angle QRW, \angle TRW$
- ____ 30. Name a right angle in Figure 5-3 above.
- a. $\angle QRT$ c. $\angle TRW$
 b. $\angle QRV$ d. $\angle QRW$
- ____ 31. Name two pairs of supplementary angles in Figure 5-3 above.
- a. $\angle QRV, \angle VRW$ c. $\angle QRV, \angle VRS$
 $\angle QRW, \angle VRS$ $\angle QRT, \angle TRS$
 b. $\angle QRT, \angle TRV$ d. $\angle QRT, \angle VRS$
 $\angle SRW, \angle WRV$ $\angle QRW, \angle VRS$
- ____ 32. Name two obtuse angles in Figure 5-3 above.
- a. $\angle QRT, \angle TRS$ c. $\angle QRV, \angle VRS$
 b. $\angle QRW, \angle TRW$ d. $\angle SRW, \angle VRW$

Use the number line to find the measure.

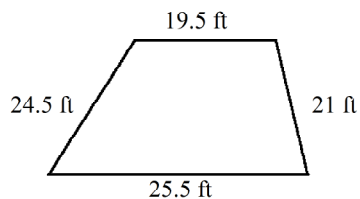


- ____ 33. KP
- a. 7 c. 6
 b. 0.5 d. 3.5

- ____ 34. Name the ray that is opposite \overrightarrow{BD} .



- a. \overrightarrow{BA} b. \overrightarrow{BD} c. \overrightarrow{CD} d. \overrightarrow{AD}
- ____ 35. Find the perimeter of the figure below.



- a. 90.5 ft c. 624.75 ft
 b. 312.375 ft d. 45.25 ft

Find the coordinates of the midpoint of a segment having the given endpoints.

_____ 36. $Q(2, 0), R(-1, 11)$

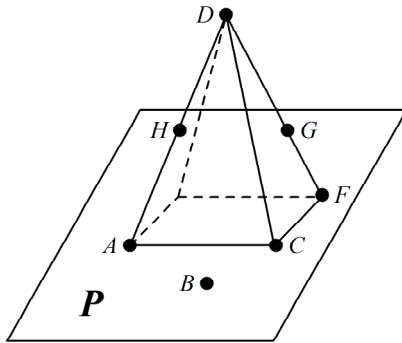
a. $(1, 5)$

c. $(0.5, 5.5)$

b. $(3, -11)$

d. $(1.5, -5.5)$

_____ 37. Are points A, C, D and F coplanar? Explain.



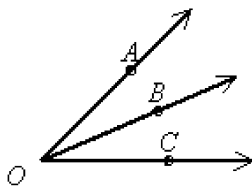
a. Yes; they all lie on the same face of the pyramid.

b. No; they are not on the same line.

c. Yes; they all lie on plane P .

d. No; three lie on the same face of the pyramid and the fourth does not.

_____ 38. If $m\angle BOC = 27$ and $m\angle AOC = 58$, then what is the measure of $\angle AOB$? The diagram is not to scale.



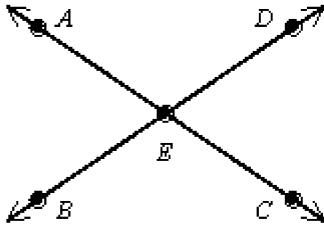
a. 85

b. 31

c. 54

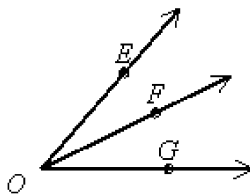
d. 62

- ____ 39. In the figure shown, $m\angle AED = 115$. Which of the following statements is false?



Not drawn to scale

- $\angle AEB$ and $\angle BEC$ are vertical angles.
 - $m\angle BEC = 115$
 - $m\angle AEB = 65$
 - $\angle BEC$ and $\angle AED$ are vertical angles.
- ____ 40. If $m\angle EOF = 40$ and $m\angle FOG = 28$, then what is the measure of $\angle EOG$? The diagram is not to scale.



- 56
 - 68
 - 12
 - 80
- ____ 41. Which angle is an obtuse angle?

a.



b.



c.



d.

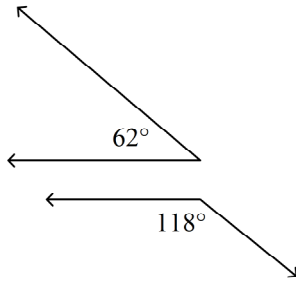


- ____ 42. A right triangle has legs that are 3 inches and 4 inches. Find the length of the hypotenuse.
- 5
 - 9
 - 7
 - 12

Name: _____

ID: A

____ 43. How are the two angles related?



Drawing not to scale

- ____ 44. Name the ray in the figure.
- a. complementary c. adjacent
b. vertical d. supplementary



- ____ 45. Supplementary angles are two angles whose measures have sum ____.
Complementary angles are two angles whose measures have sum ____.
- a. 90; 180 b. 180; 360 c. 180; 90 d. 90; 45

Geometry - Unit 1 Practice Test for wiki - Kuhowski

Answer Section

SHORT ANSWER

1. (6, 5)
2. $x = 5$, $EF = 9$, $FG = 13$
3. 20
4. $\angle 1 = 52$, $\angle 2 = 128$
5. 4.1
6. $x = 9$, $ST = 54$
7. $\angle DFG = 51$, $\angle JKL = 39$

MULTIPLE CHOICE

8. A
9. D
10. C
11. D
12. A
13. D
14. A
15. C
16. D
17. A
18. D
19. B
20. A
21. A
22. D
23. B
24. B
25. B
26. B
27. C
28. D
29. C
30. B
31. C
32. B
33. A
34. A
35. A
36. C

- 37. D
- 38. B
- 39. A
- 40. B
- 41. D
- 42. A
- 43. D
- 44. C
- 45. C